
Jr.FLL Core Values

The cornerstones of the Jr.FLL program are its Core Values, which emphasize contributions of others, friendly sportsmanship, learning, and community involvement.

We ask that everyone affiliated with every team honor these values.

- *We are a team.*
- *We do the work. Our coaches and mentors help us learn, but we find the answers ourselves.*
- *We share our experiences and discoveries with others.*
- *We are helpful, kind, and show respect when we work, play, and share. We call this Gracious Professionalism.*
- *We are all winners.*
- *We have fun.*

Information provided by:

Wake Robotics

A Cary-based 501-c3

www.wakerobotics.org

and

Team PyroTech

FRC Team #3459

www.teampyrotech.org

Junior FIRST LEGO® LEAGUE (JrFLL) (For *Inspiration* and *Recognition* of *Science* and *Technology*)

Jr.FLL introduces children ages 6 to 9 to the concepts of:

- working together as a team
- learning basic design skills
- using basic research skills
- figuring out how to create one solution together

(one topic, name, model, display board)

- sharing LEGO's



The goal: provide an opportunity for youngsters to work together as a team and explore the possibilities of improving the world around them through research, planning and technology

The JrFLL Challenge

Each year the JrFLL Challenge is based on the same real-world topic as the FIRST LEGO League (FLL) Challenge. It is open-ended, designed for younger kids, non-competitive, and customizable for every ability level.

The components of the project are:

The Show-Me Poster: allows kids to illustrate their research and team journey. It provides an opportunity for them to share what they studied and what they learned. They figure out how to present their information, build their ideas, and have a talking point to tell people what they did.

The Model portion is where kids build a representation of what they are researching (according to the Challenge requirements), incorporating simple machines and movement into their creation. Teams utilize at least one motor to power movement in their model.

Super Seniors

(the Challenge for August 2012 through April 2013)

Can Junior FIRST® LEGO® League teams improve the quality of life for seniors by learning about the obstacles some people face as they get older? Over 16,000 children ages 6 to 9 from 5 countries will learn about the challenges some seniors may have getting around, keeping in touch with friends and family or staying active and fit. (<http://juniorfirstlegoleague.org/>)



What You Need to Get Started in JrFLL

- A group of enthusiastic 6-9 year olds and an adult coach
- A room to meet in and a secure storage for partially completed models and excess Lego pieces
- Access to research material such as the internet or a public library
- Options of going on field trips or a plan for exploring the challenge topic
- An hour or two once a week for 6 to 8 weeks



Registering a Team

- Register at <http://usfirst.org/roboticsprograms/jr.fl> August to March
- This will provide you with a team number so you can participate in JrFLL events, and get you more information for the coach's resources and information about local events

Resources

- There are many resources at the JrFLL website: <http://juniorfirstlegoleague.org/>
- Some JrFLL classes are offered in the Raleigh/Cary/Chapel Hill area by Tom Settle at ViaRobotics: <http://viarobotics.com>
- An NC-specific yahoo group for coaches of JrFLL teams: <http://groups.yahoo.com/group/ncjflcoaches/>
- Wake Robotics has posted their Fall 2011 Snack Attack weekly plan: <http://wakeroboticsjrfl.wikispaces.com/>

Costs

- The only required cost is the \$25 FIRST team registration fee
- **Optional costs**
 - Event registration varies and is usually quite low (\$10 to \$25 per team)
 - Other expenses might be team t-shirts and additional Lego parts for models

Optional Kits for Each Team available through USFIRST.org when you register

JrFLL Base Kit (\$150)

Each registered team may purchase 1 kit
This base kit is **suggested** for teams that are just getting started and do not have any LEGO® materials to use for building their model.

- LEGO® Bricks Set (884 pieces)
- LEGO Technology Resources Set (1,110 pieces)
- LEGO Power Functions Battery Pack
- LEGO Power Functions Motor
- LEGO XL Base Plate



JrFLL Robotics Kit (\$170)

The LEGO® Education WeDo™ system was designed for 2nd or 3rd year teams (7 to 9 yo) who are ready to go to the next step with models featuring working motors and sensors; program their models with colorful, visual software designed just for kids.



LEGO Education WeDo™

- Construction Set (150+ pieces)
- Robotics Software - Team License
- Activity Pack Team License